



Practitioner's Docket No. U 013054-6

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Raghunath Vitthal CHAUDHARI, et al.  
Serial No.: 09/716,706 Group No.: 1621  
Filed: November 20, 2000 Examiner: E. Price  
For: NOBLE METAL CONTAINING HYDROGENATION CATALYST FOR SELECTIVE  
HYDROGENATION OF 1,4 BUTYNYDIOL TO 1,4 BUTENEDIOL, AND A PROCESS  
FOR THE PREPARATION THEREOF

RESPONSE UNDER  
37 C.F.R. 1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP  
1621

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AMENDMENT OR RESPONSE AFTER FINAL REJECTION—TRANSMITTAL

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1. Transmitted herewith is an amendment after final rejection (37 C.F.R. 1.116) for this application.

*NOTE: Response to Final Rejection—Avoiding Extension Fees "In patent applications wherein a three month Shortened Statutory Period (SSP) is set for response to a Final Rejection, the response would best be filed within two months of the date of the Office Action. If filed within two months, any Advisory Action mailed after the SSP expires will reset the SSP to expire on the date of the Advisory Action for extension fee purposes, but never more than six months from the date of the Final Rejection." Notice of Nov. 30, 1990 (1122 O.G. 571 to 591).*

#### STATUS

2. Applicant is

- ☐ a small entity. A statement:
- ☐ is attached.
- ☐ was already filed.
- ☒ other than a small entity.

#### EXTENSION OF TERM

*NOTE: As to a Supplemental Amendment filed in response to a final office action, the Notice of December 10, 1985 (1061 O.G. 34-35) states:*

*"If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run."*

3. (complete (a) or (b), as applicable)

- (a) ☐ Applicant petitions for an extension of time under 37 C.F.R. 1.136 (fees: 37 C.F.R. 1.17(a)(1)-(4)) for the total number of months checked below:

	Extension (months)	Fee for other than <u>small entity</u>	Fee for <u>small entity</u>
<input checked="" type="checkbox"/>	one month	\$ 110.00	\$ 55.00
<input type="checkbox"/>	two months	\$ 420.00	\$ 210.00
<input type="checkbox"/>	three months	\$ 950.00	\$ 475.00
<input type="checkbox"/>	four months	\$ 1,480.00	\$ 740.00

Fee: \$ 110.00

If additional extension of time is required, please consider this a petition therefor.

(check and complete the next item, if applicable)

- ☐ An extension for \_\_\_\_\_ months has already been secured and the fee paid therefor of \$ \_\_\_\_\_ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ 110.00

#### OR

- (b) ☐ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

#### FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

	(Col.1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN A SMALL ENTITY
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Addit. Fee	Addit. Fee
Total	*	Minus	**	=	x \$ 9 = \$		x \$ 18 = \$
Indep.	*	Minus	***	=	x \$ 43 = \$		x \$ 86 = \$
<input type="checkbox"/> First Presentation of Multiple Dependent Claim					+ \$ 145 = \$		+ \$ 290 = \$
					Total Addit. Fee	OR	Total Addit. Fee
					\$ ____		\$ ____

\* If the entry in Col. 1 is less than the entry in Col. 2, write "O" in Col. 3,

\*\* If the "Highest No. Previously Paid For" IN THIS SPACE is less than 20, enter "20".

\*\*\* If the "Highest No. Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest No. Previously Paid For" (Total or Indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

**WARNING:** See 37 C.F.R. § 1.116.

(complete (c) or (d), as applicable)

(c) ☐ No additional fee is required.

**OR**

(d) ☐ Total additional fee required is \$ \_\_\_\_.

#### FEE PAYMENT

5. ☒ Attached is a check in the sum of \$ 110.00.
- ☐ Charge Account No. \_\_\_\_\_ the sum of \$ \_\_\_\_.
- A duplicate of this transmittal is attached.

## FEE DEFICIENCY

**NOTE:** *Where there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the case. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).*

6. ☒ If any additional extension and/or fee is required, charge Account No. 12-0425

### AND/OR

- ☒ If any additional fee for claims is required, charge Account No. 12-0425

Reg. No.: 33778

Tel. No.: (212 ) 708-1935

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SIGNATURE OF PRACTITIONER

JANET I. CORD

(type or print name of practitioner)

P.O. Address

c/o Ladas & Parry  
26 West 61<sup>st</sup> Street  
New York, N.Y. 10023

### IN THE CLAIMS

Claim 12 (previously presented) A hydrogenation catalyst of the formula  $AB(y)C(z)$  wherein A is a support selected from a salt of a Group II metal and the Group II metal is selected from the group consisting of magnesium, calcium and barium and the salt is selected from the group consisting of acetates, nitrates, and chlorides, B is Pt or Pd, y is 0.2 to 10%, C is nickel and z is 0 to 15.0% with the proviso that when B is Pt, z is 0.

Claim 13 (currently amended) A hydrogenation catalyst of the formula  $AB(y)C(z)$  wherein A is a support selected from a magnesium acetate, magnesium nitrate, magnesium carbonate or magnesium chloride salt of a Group II metal and the Group II metal is selected from the group consisting of magnesium and barium and the salt is selected from the group consisting of acetates, nitrates, carbonates and chlorides, B is Pt or Pd, y is 0.2 to 10%, C is nickel and z is 0 to 15.0% with the proviso that when B is Pt, z is 0.

Claim 14. (previously presented) A hydrogenation catalyst of the formula  $AB(y)$  wherein A is a support selected from a salt of a Group II metal and the Group II metal is selected from the group consisting of magnesium, calcium and barium and the salt is selected from the group consisting of acetates, nitrates, carbonates and chlorides, B is Pt and y is 0.2 to 10%.

Claim 15. (previously presented) A hydrogenation catalyst of the formula  $AB(y)$  wherein A is a support of ZSM5-NH<sub>4</sub> and B is Pd where y is 0.2% to 10%.

Claim 16. (previously presented) The hydrogenation catalyst according to claim 15 wherein y is 1%.

Claim 17. (previously presented) A hydrogenation catalyst of the formula  $AB(y)C(z)$  wherein A is a support of ZSM5-NH<sub>4</sub> and B is Pd where y is 0.2% to 10%, C is nickel and z is greater than 0 to 15%.

Claim 18. (previously presented) The hydrogenation catalyst according to claim 17 wherein y is 1% and z is 10%.

Claim 19. (previously presented) The hydrogenation catalyst according to claim 13 being 1% Pd/MgCO<sub>3</sub>.

Claim 20. (currently amended) The hydrogenation catalyst comprising according to claim 13 ~~being~~ 1% Pd/BaCO<sub>3</sub>.

Claim 21. (previously presented) The hydrogenation catalyst according to claim 13 being 1% Pt/MgCO<sub>3</sub>.

Claim 22. (previously presented) The hydrogenation catalyst according to claim 14 being 1% Pt/CaCO<sub>3</sub>.

Claim 23. (previously presented) The hydrogenation catalyst according to claim 14 being 1% Pt/BaCO<sub>3</sub>.